Please amend page 20, line 1 as follows:

~~Claims~~ **What is claimed is:**

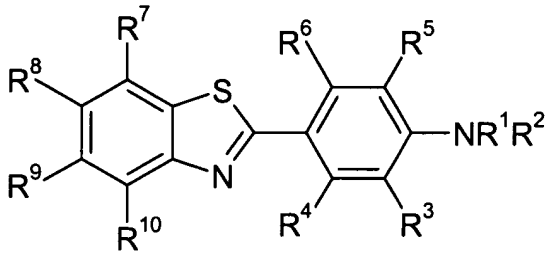
This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A process for the production of an ^{18}F-labelled tracer which comprises treatment of a solid support-bound precursor of formula (I)

SOLID SUPPORT-LINKER- X -TRACER (I)

wherein X is a group which promotes nucleophilic substitution at a specific site on the attached TRACER and the TRACER is of formula (A)



(A)

wherein:

R^1 and R^2 are independently selected from hydrogen, a protecting group, C_{1-6} alkyl, C_{1-6} hydroxyalkyl, and C_{1-6} haloalkyl;

R^3 to R^{10} are independently selected from hydrogen, halo, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} alkoxy, C_{1-6} haloalkoxy, hydroxy, cyano, and nitro;

and one of the groups R^1 to R^{10} is bonded to the SOLID SUPPORT-LINKER-X -;

with $^{18}F^-$ to produce the labelled tracer of formula (II)

^{18}F-TRACER (II)

wherein the TRACER is as defined for the compound of formula (I) except that one of the groups R^1 to R^{10} is bonded to the ^{18}F instead of to the SOLID SUPPORT-LINKER-X – in formula (I);

optionally followed by:

(i) removal of excess $^{18}F^-$, for example by ion-exchange chromatography; and/or

(ii) removal of any protecting groups; and/or

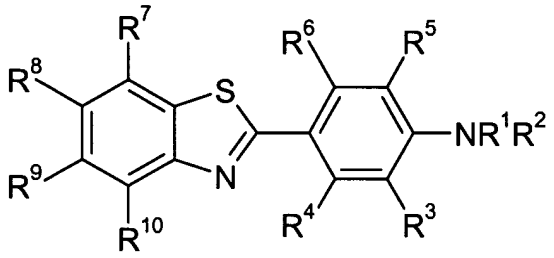
(iii) removal of organic solvent; and/or

(iv) formulation of the resultant compound of formula (II) as an aqueous solution

2. (Original) A process according to claim 1 which comprises treatment of a solid support-bound precursor of formula (Ia):

SOLID SUPPORT-LINKER-SO_2-O -TRACER (Ia)

wherein the TRACER is of formula (Aa)



(Aa)

wherein:

R^1 and R^2 are independently selected from hydrogen, a protecting group, C_{1-6} alkyl, C_{1-6} hydroxyalkyl, and C_{1-6} haloalkyl;

R^3 to R^{10} are independently selected from hydrogen, halo, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} alkoxy, C_{1-6} haloalkoxy, hydroxy, cyano, and nitro;

in which either (a) an R^1 C_{1-6} alkyl group or (b) an R^3 to R^{10} C_{1-6} alkyl or C_{1-6} alkoxy group is bonded to the SOLID SUPPORT-LINKER-SO_2-O – in formula (Ia);

with $^{18}F^-$ to produce the labelled tracer of formula (IIa)

^{18}F-TRACER (IIa)

wherein the TRACER is as defined for the compound of formula (Ia) except that either (a) an R^1 C_{1-6} alkyl group or (b) an R^3 to R^{10} C_{1-6} alkyl or C_{1-6} alkoxy group is bonded to the ^{18}F instead of to the SOLID SUPPORT-LINKER-SO_2-O – in formula (Ia);

optionally followed by:

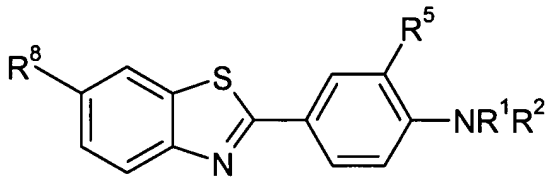
(i) removal of excess $^{18}F^-$, for example by ion-exchange chromatography; and/or

(ii) removal of any protecting groups; and/or

(iii) removal of organic solvent; and/or

(iv) formulation of the resultant compound of formula (IIa) as an aqueous solution.

3. (Original) A process according to claim 2 wherein the TRACER is of formula (Aa1)



(Aa1)

wherein

R^1 and R^2 are independently selected from hydrogen, a protecting group, C_{1-6} alkyl, C_{1-6} hydroxyalkyl, and C_{1-6} haloalkyl;

R^5 is hydrogen or C_{1-6} alkyl,

R^8 is hydroxy, C_{1-6} alkoxy, C_{1-6} haloalkyl, or C_{1-6} alkyl;

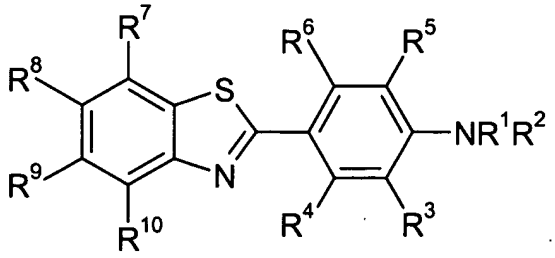
provided that one of R^1, R^5 and R^8 is C_{1-6} alkyl bonded to the SOLID SUPPORT-LINKER-SO_2-O – in formula (Ia) or R^8 is C_{1-6} alkoxy bonded to the SOLID SUPPORT-LINKER-SO_2-O – in formula (Ia) .

4. (Original) A process according to claim 1 which comprises treatment of a solid support-bound precursor of formula (Ib)

SOLID SUPPORT-LINKER-I^+ -TRACER (Ib)

Y^-

wherein Y^- is an anion and the TRACER is of formula (Ab)



(Ab)

wherein:

R^1 and R^2 are independently selected from hydrogen, a protecting group, C_{1-6} alkyl, C_{1-6} hydroxyalkyl, and C_{1-6} haloalkyl;

one of R^3 to R^{10} is a bond to the SOLID SUPPORT-LINKER-I^+- group in formula (Ib) and the others are independently selected from hydrogen, halo, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} alkoxy, C_{1-6} haloalkoxy, hydroxy, cyano, and nitro;

with $^{18}F^-$ to produce the labelled tracer of formula (IIb)

^{18}F-TRACER (IIb)

wherein the TRACER is as defined for the compound of formula (Ib) except that one of R^3 to R^{10} is a bond to the ^{18}F instead of a bond to the SOLID SUPPORT-LINKER-I^+- group in formula (Ib);

optionally followed by:

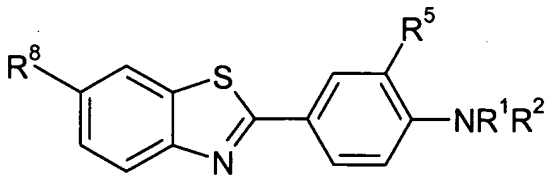
(i) removal of excess $^{18}F^-$, for example by ion-exchange chromatography; and/or

(ii) removal of any protecting groups; and/or

(iii) removal of organic solvent; and/or

(iv) formulation of the resultant compound of formula (IIb) as an aqueous solution.

5. (Original) A process according to claim 4 wherein the TRACER is a compound of formula (Ab1)



(Ab1)

wherein:

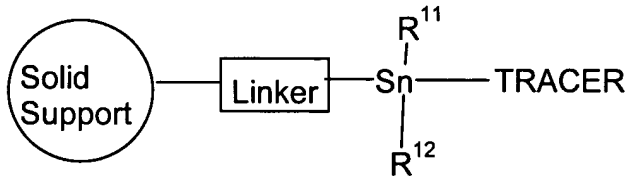
R^1 and R^2 are independently selected from hydrogen, a protecting group, C_{1-6} alkyl, C_{1-6} hydroxyalkyl, and C_{1-6} haloalkyl;

R^5 is hydrogen, C_{1-6} alkyl, or a bond to the SOLID SUPPORT-LINKER-I^+- group in formula (Ib);

R^8 is hydroxy, C_{1-6} alkoxy, C_{1-6} haloalkyl, C_{1-6} alkyl, or a bond to the SOLID SUPPORT-LINKER-I^+- group in formula (Ib);

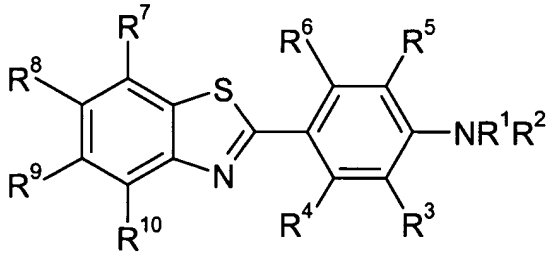
provided that only one of R^5 and R^8 is a bond to the SOLID SUPPORT-LINKER-I^+- group in formula (Ib).

6. (Original) A process for the production of an ^{18}F-labelled tracer which comprises treatment of a solid support-bound precursor of formula (III):



(III)

wherein R^{11} and R^{12} are independently selected from C_{1-6} alkyl and the TRACER is a compound of formula (Ac):



(Ac)

wherein:

R^1 and R^2 are independently selected from hydrogen, a protecting group, C_{1-6} alkyl, C_{1-6} hydroxyalkyl, and C_{1-6} haloalkyl;

one of R^3 to R^{10} is a bond to the Sn in formula (III) and the others are independently selected from hydrogen, halo, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} hydroxyalkyl, C_{1-6} alkoxy, C_{1-6} haloalkoxy, hydroxy, cyano, and nitro;

with a source of ^{18}F, suitably $^{18}F_2$, ^{18}F-CH_3COOF or ^{18}F-OF_2;

to give the labelled tracer of formula (IV);

^{18}F-TRACER (IV)

wherein the TRACER is as defined for the compound of formula (III) except that one of R^3 to R^{10} is a bond to the ^{18}F instead of a bond to the Sn in formula (III);

optionally followed by:

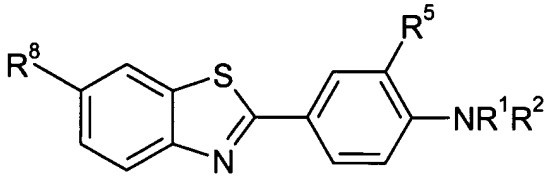
(i) removal of excess fluorinating agent and $^{18}F^-$ ions produced in the generation of the fluorinating agent or in the reaction; and/or

(ii) removal of any protecting groups; and/or

(iii) removal of organic solvent; and/or

(iv) formulation of the resultant compound of formula (IV) as an aqueous solution.

7. (Original) A process according to claim 6 in which the TRACER is suitably a compound of formula (Ac1)



(Ac1)

wherein:

R^1 and R^2 are independently selected from hydrogen, a protecting group, C_{1-6} alkyl, C_{1-6} hydroxyalkyl, and C_{1-6} haloalkyl;

R^5 is hydrogen, C_{1-6} alkyl, or a bond to the Sn in formula (III);

R^8 is hydroxy, C_{1-6} alkoxy, C_{1-6} haloalkyl, C_{1-6} alkyl, or a bond to the Sn in formula (III);

provided that only one of R^5 and R^8 is a bond to the Sn in formula (III).

8. (Currently amended) A process for the preparation of a ^{18}F-labelled tracer of formula (II), (IIa), (IIb), or (IV), according to ~~any one of claims 1 to 7~~claim 1, for use in PET.

9. (Currently amended) A compound of formula (I), (Ia), (Ib), (III) as defined in ~~any one of claims 1 to 7~~claim 1.

10. (Currently amended) A radiopharmaceutical kit for the preparation of an ^{18}F-labelled tracer for use in PET, which comprises:

(i) a vessel containing a compound of formula (I), (Ia), or (Ib) as defined in ~~any one of claims 1 to 5~~claim 1; and

(ii) means for eluting the vessel with a source of $^{18}F^-$;

(iii) an ion-exchange cartridge for removal of excess $^{18}F^-$; and optionally

(iv) a cartridge for solid-phase deprotection of the resultant product of formula (II), (IIa), or (IIb) as defined in ~~any one of claims 1 to 5~~claim 1.

11. (Currently amended) A cartridge for a radiopharmaceutical kit for the preparation of an ^{18}F-labelled tracer for use in PET which comprises:

(i) a vessel containing a compound of formula (I), (Ia), or (Ib) as defined in ~~any one of claims 1 to 5~~claim 1; and

(ii) means for eluting the vessel with a source of $^{18}F^-$.

12. (Currently amended) A radiopharmaceutical kit for the preparation of of an ^{18}F-labelled tracer for use in PET, which comprises:

(i) a vessel containing a compound of formula (III) as defined in claim 6 ~~or 7~~; and

(ii) means for eluting the vessel with a source of ^{18}F ; and optionally

(iii) a cartridge for removal of excess fluorinating agent and $^{18}F^-$ ions; and optionally

(iv) a cartridge for solid-phase deprotection of the resultant product of formula (IV) as defined in claim 6 ~~or 7~~.

13. (Currently amended) A cartridge for a radiopharmaceutical kit for the preparation of an ^{18}F-labelled tracer according to claim 12 for use in PET which comprises:

(i) a vessel containing a compound of formula (III) as defined in claim 6 ~~or 7~~ ; and
(ii) means for eluting the vessel with a source of ^{18}F .

14. (Currently amended) A method for obtaining a diagnostic PET image which comprises the step of using a radiopharmaceutical kit according to claim 10 ~~or 12~~ or a cartridge for a radiopharmaceutical kit according to claim 11 ~~or 13~~.